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(54) HYDRAULIC CALCIUM PHOSPHATE CEMENT

(57)Abstract:

PURPOSE: To obtain the hydraulic matter which cures rapidly at about neutral pH and has excellent bioaffinity by constituting the matter of a powder agent essentially consisting of a mixture obtd. by mixing tertiary calcium phosphate and primary calcium phosphate so as to attain 1.400 to 1.498 Ca/P molar ratio and a liquid agent.

CONSTITUTION: The tertiary calcium phosphate of the hydraulic calcium phosphate cement consisting of the powder agent essentially consisting of the mixture obtd. by mixing tertiary calcium phosphate and primary calcium phosphate so as to attain 1.400 to 1.498 Ca/P molar ratio and the liquid agent is made of a mixture composed of α type tertiary calcium phosphate and β type tertiary calcium phosphate. This hydraulic calcium phosphate cement is formed by further incorporating the α type tertiary calcium phosphate into the β type tertiary calcium phosphate and the primary calcium phosphate as the powder agent and, therefore, the cement maintains the strength without being deteriorated over a long period of time and can be cured within practicable time at the pH of the neutral region. Further, the cement has the excellent bioaffinity.

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